

Airports and economic development

The local general aviation airport is fast becoming the principal access route from a community to the nation and world.

As an important part of our statewide transportation network, local airports such as Langlade County Airport play a critical role in fostering business growth and economic development.

Convenient access to air transportation allows businesses to quickly move goods and key personnel from one site to another, saving valuable time and increasing productivity.

A study by the Wisconsin Department of Transportation (WisDOT) shows that between 1997 and 2001, over 85% of new or expanded manufacturing businesses were located within 15 miles of an airport capable of handling jet aircraft. These manufacturers provided 34,064 jobs for Wisconsin residents.

The local airport can also provide facilities for emergency medical flights, law enforcement, agricultural spraying, pilot training, and many other important community services.

Communities that are readily accessible by air transportation are at a competitive advantage and may realize economic and quality of life benefits that can affect every citizen.

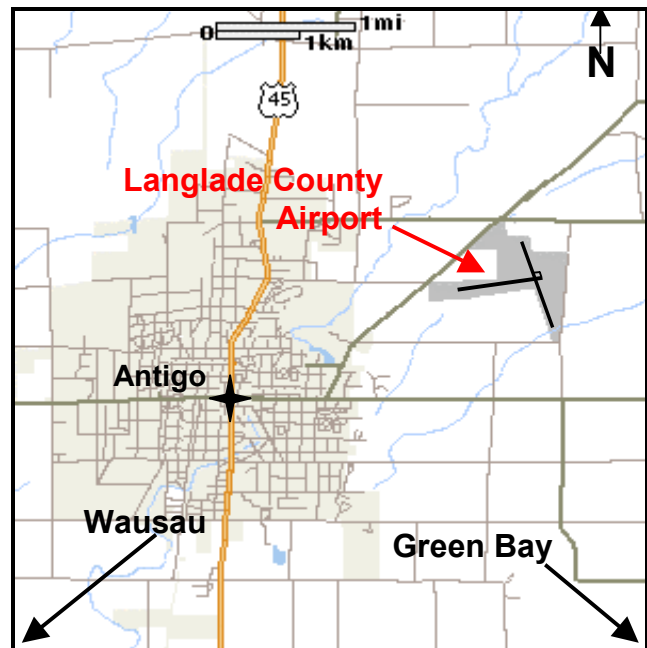


Langlade County Airport

As an integral part of our state transportation network, Langlade County Airport in Antigo plays a critical role in fostering business growth and economic development in the region.

Airport location

Langlade County Airport is located in Langlade County (northeastern Wisconsin). Easily accessible from US 45, Langlade County Airport is 27 miles northeast of Wausau and 72 miles northwest of Green Bay.



The airport provides a safe and convenient environment for travel, business aviation, and related business activities.

Regional profile

Langlade County has a diversified economic base and workforce. Some of the products of the area include commercial printing, lawn and garden equipment, and cheese products.

The area's largest non-government industry sectors are manufacturing, transportation, warehousing, trade and accommodation and food services.

Langlade County profile

Area populations

City of Antigo – 8,597

Langlade County – 21,017

Employment

Langlade County employment – 9,082

County per capita income – \$21,908

Major employers in area

- Langlade Memorial Hospital
- Wal-Mart Associates Inc.
- Vencor Nursing Centers
- Fleet Wholesale Supply Co, Inc.
- Waukesha Bearings Corp.
- The Antigo Cheese Co
- Copps Food Center
- Kretz Lumber Co, Inc.

Sources: U.S. Census Bureau, U.S. Bureau of Economic Analysis and the WI Departments of Administration and Workforce Development.

Airport services and activity

Owned and operated by Langlade County, the airport is classified as a Transport Corporate Airport in the *Wisconsin State Airport System Plan: 2020 (SASP)*.

In 2003 the airport recorded 10,050 aircraft operations and was home for 21-based aircraft, including 1 multi-engine, 15 single-engine, and 5 ultralights. The airport has one Fixed Base Operator (FBO), Antigo Air. There are 10 T-Hangars, 2 larger hangars, and a maintenance hangar.

Airport facilities

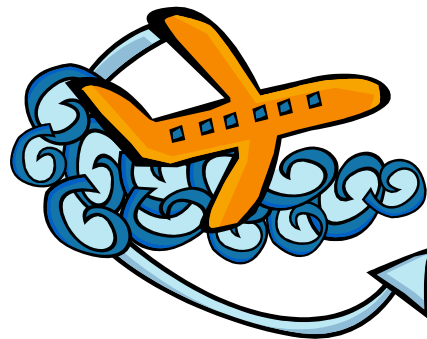
Langlade County Airport has two paved runways.



The primary runway (16/34) is 4,000 feet long by 75 feet wide. Lighting aids on this runway include Precision Approach Path Indicators (PAPIs), Medium Intensity Runway Lights (MIRL) and Runway End Identifier Lights (REIL).

The secondary runway (08/26) is 3,400 feet long and 75 feet wide. Lighting aids on this runway include MIRLs and PAPIs.

Instrument approaches to the airport include a Non Directional Beacon (NDB) and Global Positioning System (GPS) approach to runway 16, and GPS approach to runway 34.



The economic impact of Langlade County Airport

This report documents a recently completed study by the WisDOT-Bureau of Aeronautics on the contribution of Langlade County Airport to the local and state economy. The economic impact of Langlade County Airport is the *economic output (sales), employment and wage income* that can be attributed directly and indirectly to the airport.

Economic impacts measure the importance of an airport as a business in terms of the employment that it supports and the goods and services that it consumes.

The results of the study indicate that Langlade County Airport provided \$1.1 million in sales, supported 22 jobs and contributed \$400,100 in wage income to the local and state economy in 2003.

The methodology used to estimate the contribution of the airport to the local and state economy is the WisDOT Airport Benefit-Cost (ABC) System.

ABC Airport Benefit-Cost System

The WisDOT ABC System is a Microsoft Access database application for evaluating the economic impact of airports and airport improvement projects.

The WisDOT ABC System was developed based on guidelines established by the FAA in the document "*Estimating the Regional Economic Significance of Airports*," U.S. DOT, September 1992.

The WisDOT ABC System used data from the following three primary sources to estimate the economic impact of the airport to the local and state economy:

1. Airport activity and business survey data on jobs, income and sales at the airport.
2. Data from the *U.S. Bureau of Economic Analysis* on industry employment, wages and sales.
3. Regional economic multipliers obtained from the industry transaction tables in the Impact Analysis for Planning Model (IMPLAN) computer model.

IMPLAN is a computer model produced for WisDOT by the Minnesota IMPLAN Group. The model estimates purchases and sales between various sectors of the Wisconsin economy.

The model produces statewide multipliers as well as multipliers for specific counties and groups of counties. IMPLAN multipliers for two sectors in the Langlade County economy were used in the analysis.

The regional economic multipliers used in this study for the *Air Transportation Sector* are 1.3 (sales), 1.37 (employment) and 1.4 (wages.) Multipliers used for the *Retail/Hotel/Restaurant Sector* are 1.36 (sales), 1.2 (employment) and 1.35 (wages.)

The economic contribution of Langlade County Airport is comprised of three types of impacts: *Direct Impact of the Airport*, *Direct Impact of Airport Users*, and the *Multiplier Impact*. Each of these effects is expressed in terms of their effect on economic output (sales), employment (jobs) and wage income.

Economic Impact

2004

Langlade County Airport (AIG)
Antigo, WI

Direct impacts

The direct impact of Langlade County Airport on the local economy reflects the jobs, payroll and sales directly related to airport operations. This includes the management and operation of the airport, as well as businesses providing aircraft maintenance, fueling, storage and leasing activities.

The direct effect of the airport on the local economy in 2003 totaled five employees, a payroll of \$105,300 and \$327,200 in economic output.

Indirect impact

Visitor spending, or the direct impact of airport users, is the amount of money flowing into the local economy from air passengers who reside outside the county. These visitors spend money on lodging, meals, ground transportation and retail purchases within the county.

The \$337,500 of visitor spending in 2003 supported 10 additional jobs in Langlade County with a payroll of \$128,100.

Induced impacts

The multiplier or induced effect represents the downstream effect of airport operation and visitor spending throughout the local and state economy.

This impact includes the activity of suppliers to the businesses at the airport (including electricity, office supplies, aircraft parts, fuel for resale) and suppliers to the businesses serving visitors. It also includes the activity generated by the airport workers re-spending their income (clothes, groceries, entertainment, and other necessities.)

In 2003, the multiplier impact of the airport supported four additional jobs, provided \$87,000 in wages and generated over \$217,400 in economic output.

Employment (FTE Jobs)

Direct	5
Indirect (visitor spending)	10
Induced (multiplier effect)	4
Total employment impact	19 jobs

Wage income/payroll

Direct	\$105,300
Indirect (visitor spending)	\$128,100
Induced (multiplier effect)	\$ 87,000
Total payroll impact	\$320,400

Economic output/sales

Direct	\$327,200
Indirect (visitor spending)	\$337,500
Induced (multiplier effect)	\$217,400
Total economic output	\$882,100



Economic Impact

2004

Langlade County Airport (AIG)
Antigo, WI

Other benefits

The study also measured public revenue generated at the local and state level from airport and aviation related fees.

In 2003, Langlade County Airport generated \$26,190 in revenue from aircraft storage, landing fees, and leases. Local public concession rents, fees, taxes and revenues generated \$9,548.

The airport also generated aircraft registration fees of \$2,700 for a total of \$38,438 in direct local and state public revenue.

Public revenue – direct impact

Langlade County	State	Total
\$35,738	\$2,700	\$38,438

Local economic impact

The results of the study indicate that Langlade County Airport provided \$882,100 in economic output, supported 19 jobs and contributed \$320,400 in wage income to the local economy in Langlade County.

Contribution of Langlade County Airport to the local economy

FTE jobs	Wage income/ payroll	Economic output/sales
19	\$320,400	\$882,100

Local and state economic impact

The activity at Langlade County Airport in 2003 also generated an additional \$227,400 in sales, three jobs and \$79,700 in payroll to the state economy.

When combined with the local impact, the total contribution of Langlade County Airport to the local and state economy in 2003 is \$1.1 million in sales, 22 jobs and \$400,100 in wage income.

Contribution of Langlade County Airport to the local and state economy

FTE jobs	Wage income/ payroll	Economic output/sales
22	\$400,100	\$1.1 million

